TO:

CERTIFICATE OF **CORRECTION BRANCH**

ATTN:

MICHELLE WILLIAMS

APP#:

09/476,092

PAT#:

7,209,725

FROM:

HUNTER WILDER

ATTORNEYS AT LAW

Signe Kessier Hunter Wilder Electrical Group Legal Assistant Sterne, Kessier, Goldstein & Fox P.L.L.C. 1100 New York Avenue, NW Washington, DC 20005 Direct: 202.772.8642 Fax: 202.371.2540

Main: 202.371.2600 Email: hwilder@skqf.com www.skgf.com

NOTE:

After the Certificate of Correction was originally filed, someone (Lamont) informed Mike Lee that the Information Disclosure Statements (IDSs) were needed that supported the Certificate of Correction. Attached are all of the IDSs that were filed at the PTO along with a more descriptive Request for Certificate of Correction. The PTO/SB/44 form did not change, but the Request form did. I am new in this field, so I am not sure what is allowed, but if this can replace the old Request for Certificate of Correction, that would be appreciated. I will be out of the office from Tuesday (7/3) noon till Sunday and will return to the office on Monday (7/9). If you have to contact me, then you could reach me on my cell at 803-316-5508. Thanks, and have a great week!



Robert Greene Sterne Jorge A. Goldstev A. Goldstev David K.S. Cornwell Robert W. Esmond Tracy-Gene G. Durkin Michele A. Cimbala Michael B. Ray Robert E. Sokohl Eric K. Steffe Michael Q. Lee John M. Covert Michael Q. Lee John M. Covert Gobert C. Millonig Donald J. Featherstone Timothy J. Shea, Jr Michael V. Messinger Judith U. Kim Jeffrey T. Hebey Eldora L. Ellison

Brian J. Del Buloi Mark Fox Evens Vincent L. Capua Elizabeth J. Haan Michael D. Sped Kevin W. McCab Glenn J. Perry Edward W. Yee Grant E. Reed Virgil Lee Beastr Theodore A. Woo Joseph S. Ostrof Jason D. Elsenbe Tracy L. Muller Jon E. Wright LuAnne M. Dess Ann E. Summerf Halene C. Cartis Cynthia M. Bouchez Ilmothy A. Doyle Gaby L. Longsworth Lori A. Gordon Laura A. Vogel Bryan S. Wade Bashir M.S. Ali Shannon A. Carroll Anbar F. Khal Michelle K. Holoubek Marsha A. Rose Scott A. Schaller Lei Zhou Young Tang Christopher J. Walsh W. Blake Coblentzr James J. Pohl John T. Haran Mark W. Rygiel

Registered Patent Agents • Karen R. Markowicz Matthew J. Dowd Katrina Yujian Pel Quach Julie A. Helder Mita Mukherjee Scott M. Woodhouse Peter A. Socarras Jeffrey K. Mills Oanielle L. Letting Lori Brandes Steven C. Oppenheimer Aaron S. Lukas Gaurav Asthana

<u>Of Counsel</u> Edward J. Kessler Kenneth C. Bass III Marvin C. Guthrle Christopher P. Wrist

*Admitted only in Maryland *Admitted only in Virginia •Practice Limited to Federal Agencies

May 31, 2007

WRITER'S DIRECT NUMBER: (202) 772-8674 INTERNET ADDRESS: MLEE@SKGF.COM

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450 Art Unit 2686

Attn: Certificate of Correction Branch

Re:

U.S. Utility Patent

Patent No. 7,209,725; Issued: April 24, 2007

Paris Amala a 7 and 100 100 (10 and an and 10

r: Analog Zero IF FM Decoder and Embodiments Thereof, Such As The

Family Radio Service

Inventors: Sorrells et al. Our Ref: 1744.0250001

Sir:

Transmitted herewith for appropriate action are the following documents:

- 1. Request for Certificate of Correction Under 37 C.F.R. § 1.322; and
- 2. Form PTO/SB/44 (45 sheets).

The above-listed documents are filed electronically through EFS-Web.

In the event that extensions of time are necessary to prevent abandonment of this patent application, then such extensions of time are hereby petitioned.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

TERME KESSUER, GOLDSTEIN & FOX P.L.L.C.

Mighael O. Lee

Attorney for Patentees Registration No. 35,239

MQL/ahw

Enclosures Sterne, Ressfer, Goldstein & Fox P.L.C. : 1100 New York Avenue, NW : Washington, DC 20005 : 202.371.2600 f 202.37 1.2840 : Www.skgf.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re patent of:

Confirmation No.: 7304

Sorrells et al.

Art Unit: 2686

Patent. No.: 7,209,725

Examiner: Naghmeh Mehrpour

Issued: April 24, 2007

Atty. Docket: 1744.0250001

For: Analog Zero IF FM Decoder and **Embodiments Thereof, Such As**

The Family Radio Service

Request for Certificate of Correction Under 37 C.F.R. § 1.322

Attn: Certificate of Correction Branch

Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Sir:

It is hereby requested that a Certificate of Correction under 37 C.F.R. § 1.322 be issued for the above-captioned United States Patent. This Certificate of Correction is being requested due to mistakes which appear in the printed patent. These mistakes were made by the U.S. Patent and Trademark Office.

Specifically, the printed patent contains the following errors for which a Certificate of Correction is respectfully requested:

Title page, item [56], References Cited section, please add the cited references in the attached PTO/SB/44 form. These references were filed at the PTO in the following manner: Information Disclosure Statement filed January 11, 2002, Third Supplemental Information Disclosure Statement filed July 11, 2003, Fourth Supplemental Information

Disclosure Statement filed September 3, 2003, Sixth Supplemental Information Disclosure Statement filed July 13, 2006, Eighth Supplemental Information Disclosure Statement filed May 7, 2005, Ninth Supplemental Information Disclosure Statement filed October 19, 2005, Eleventh Supplemental Information Disclosure Statement filed May 8, 2006, Thirteenth Supplemental Information Disclosure Statement filed November 7, 2006, and Notice of References Cited dated July 25, 2006. All references contained in the previously stated Information Disclosure Statements were visibly initialed by the Examiner but missing from the issued patent except for some references contained in the Ninth and Third Supplemental Information Disclosure Statement. The foreign and non-patent literature documents on the second page of the Third Supplemental Information Disclosure Statement were filed but not included in the issued patent because they were neither signed or crossed out. It was believed that the Examiner overlooked these references and that they should be included in the issued patent. It was ambiguous from the file wrapper whether the Examiner even considered the Ninth Supplemental Information Disclosure Statement.

Remarks

The above-noted corrections do not involve such changes in the patent as would constitute new matter or would require reexamination.

A completed Form PTO/SB/44 accompanies this request, with the above-noted corrections printed thereon. Accordingly, a Certificate of Correction is believed proper and issuance thereof is respectfully requested.

The Commissioner is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

TERNE, RESSLER, GOLDSTEIN & FOX P.L.L.C.

Michael & Lee

Attorney for Patentees Registration No. 35,239

Date: 6/4/07

1100 New York Avenue, N.W. Washington, D.C. 20005-3934 (202) 371-2600

DOC#679792_1.DOC

UNITED STATES PATENT AND TRADEMARK OFFICE **CERTIFICATE OF CORRECTION**

Page <u>1</u> of <u>45</u>

7,209,725 PATENT NO:

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section

Please add the following references:

2,057,613	10/1936	Gardner
2,241,078	05/1941	Vreeland
2,270,385	01/1942	Skillman
2,283,575	05/1942	Roberts
2,358,152	09/1944	Earp
2,410,350	10/1946	Labin et al.
2,451,430	10/1948	Barone
2,462,069	02/1949	Chatterjea et al.
2,462,181	02/1949	Grosselfinger
2,472,798	06/1949	Fredendall
2,497,859	02/1950	Boughtwood et al.
2,499,279	02/1950	Peterson
2,530,824	11/1950	King
2,802,208	08/1957	Hobbs
2,985,875	05/1961	Grisdale et al.
3,023,309	02/1962	Foulkes
3,069,679	12/1962	Sweeney et al.
3,104,393	09/1963	Vogelman
3,114,106	12/1963	McManus
3,118,117	01/1964	King et al.
3,226,643	12/1965	McNair
3,258,694	06/1966	Shepherd
3,383,598	05/1968	Sanders
3,384,822	05/1968	Miyagi
3,454,718	07/1969	Perreault
3,523,291	08/1970	Pierret

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 2 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 1)

Please add the following references:

3,548,342	12/1970	Maxey
3,555,428	01/1971	Perreault
3,614,627	10/1971	Runyan et al.
3,617,892	11/1971	Hawley et al.
3,617,898	11/1971	Janning, Jr.
3,621,402	11/1971	Gardner
3,623,160	11/1971	Giles et al.
3,626,417	12/1971	Gilbert
3,629,696	12/1971	Bartelink
3,641,442	02/1972	Boucher
3,662,268	05/1972	Gans et al.
3,689,841	09/1972	Bello et al.
3,694,754	09/1972	Baltzer
3,714,577	01/1973	Hayes
3,716,730	02/1973	Cerny, Jr.
3,717,844	02/1973	Barret et al.
3,719,903	03/1973	Goodson
3,735,048	05/1973	Tomsa et al.
3,737,778	06/1973	Van Gerwen et al.
3,739,282	06/1973	Bruch et al.
3,764,921	10/1973	Huard
3,806,811	04/1974	Thompson
3,868,601	02/1975	MacAfee
3,940,697	02/1976	Morgan
3,949,300	04/1976	Sadler
3,967,202	06/1976	Batz

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page <u>3</u> of <u>45</u>

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 2)

Please add the following references:

3,980,945	09/1976	Bickford
3,987,280	10/1976	Bauer
3,991,277	11/1976	Hirata
4,003,002	01/1977	Snijders et al.
4,013,966	03/1977	Campbell
4,016,366	04/1977	Kurata
4,017,798	04/1977	Gordy et al.
4,019,140	04/1977	Swerdlow
4,032,847	06/1977	Unkauf
4,035,732	07/1977	Lohrmann
4,045,740	08/1977	Baker
4,047,121	09/1977	Campbell
4,051,475	09/1977	Campbell
4,066,841	01/1978	Young
4,066,919	01/1978	Huntington
4,080,573	03/1978	Howell
4,081,748	03/1978	Batz
4,115,737	09/1978	Hongu et al.
4,130,765	12/1978	Arakelian et al.
4,130,806	12/1978	Van Gerwen et al.
4,142,155	02/1979	Adachi
4,143,322	03/1979	Shimamura
4,158,149	06/1979	Otofuji
4,170,764	10/1979	Salz et al.
4,204,171	05/1980	Sutphin, Jr.
4,210,872	07/1980	Gregorian

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934

Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 4 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 3)

Please add the following references:

4,241,451	12/1980	Maixner et al.
4,245,355	01/1981	Pascoe et al.
4,253,066	02/1981	Fisher et al.
4,253,067	02/1981	Caples et al.
4,253,069	02/1981	Nossek
4,286,283	08/1981	Clemens
4,308,614	12/1981	Fisher et al.
4,320,361	03/1982	Kikkert
4,320,536	03/1982	Dietrich
4,334,324	06/1982	Hoover
4,346,477	08/1982	Gordy
4,355,401	10/1982	Ikoma et al.
4,356,558	10/1982	Owen et al.
4,360,867	11/1982	Gonda
4,363,132	12/1982	Collin
4,365,217	12/1982	Berger et al.
4,369,522	01/1983	Cerny, Jr. et al.
4,370,572	01/1983	Cosand et al.
4,380,828	04/1983	Moon
4,389,579	06/1983	Stein
4,392,255	07/1983	Del Giudice
4,393,395	07/1983	Hacke et al.
4,430,629	02/1984	Betzl et al.
4,439,787	03/1984	Mogi <i>et al</i> .
4,446,438	05/1984	Chang et al.
4,456,990	06/1984	Fisher et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

Page <u>5</u> of <u>45</u>

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 4)

Please add the following references:

4,472,785	09/1984	Kasuga
4,479,226	10/1984	Prabhu et al.
4,481,490	11/1984	Huntley
4,481,642	11/1984	Hanson
4,484,143	11/1984	French et al.
4,485,488	11/1984	Houdart
4,504,803	03/1985	Lee et al.
4,517,519	05/1985	Mukaiyama
4,517,520	05/1985	Ogawa
4,518,935	05/1985	van Roermund
4,521,892	06/1985	Vance et al.
4,562,414	12/1985	Linder et al.
4,577,157	03/1986	Reed
4,583,239	04/1986	Vance
4,591,736	05/1986	Hirao et al.
4,591,930	05/1986	Baumeister
4,563,773	07/1986	Dixon, Jr. et al.
4,602,220	07/1986	Kurihara
4,603,300	07/1986	Welles, II et al.
4,612,464	09/1986	Ishikawa et al.
4,612,518	09/1986	Gans et al.
4,616,191	10/1986	Galani et al.
4,621,217	11/1986	Saxe et al.
4,628,517	12/1986	Schwarz et al.
4,634,998	01/1987	Crawford
4,648,021	03/1987	Alberkrack

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 6 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 5)

Please add the following references:

	0	
4,651,034	03/1987	Sato
4,653,117	03/1987	Heck
4,675,882	06/1987	Lillie et al.
4,688,253	08/1987	Gumm
4,716,376	12/1987	Daudelin
4,716,388	12/1987	Jacobs
4,718,113	01/1988	Rother et al.
4,726,041	02/1988	Prohaska et al.
4,733,403	03/1988	Simone
4,734,591	03/1988	Ichitsubo
4,737,969	04/1988	Steel et al.
4,740,675	04/1988	Brosnan et al.
4,740,792	04/1988	Sagey et al.
4,743,858	05/1988	Everard
4,745,463	05/1988	Lu
4,751,468	06/1988	Agoston
4,757,538	07/1988	Zink
4,768,187	08/1988	Marshall
4,769,612	09/1988	Tamakoshi et al.
4,785,463	11/1988	Janc et al.
4,789,837	12/1988	Ridgers
4,791,584	12/1988	Greivenkamp, Jr.
4,801,823	01/1989	Yokoyama
4,806,790	02/1989	Sone
4,810,904	03/1989	Crawford
4,810,976	03/1989	Cowley et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

(Also Form PTO-1050)

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 7 of 45

PATENT NO: 7,209,725

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 6)

Please add the following references:

4,811,362	03/1989	Yester, Jr. et al.
4,811,422	03/1989	Kahn
4,814,649	03/1989	Young
4,816,704	03/1989	Fiori, Jr.
4,819,252	04/1989	Christopher
4,833,445	05/1989	Buchele
4,841,265	06/1989	Watanabe et al.
4,845,389	07/1989	Pyndiah et al.
4,855,894	08/1989	Asahi et al.
4,862,121	08/1989	Hochschild et al.
4,866,441	09/1989	Conway et al.
4,868,654	09/1989	Juri et al.
4,870,659	09/1989	Oishi et al.
4,871,987	10/1989	Kawase
4,885,587	12/1989	Wiegand et al.
4,885,671	12/1989	Peil
4,885,756	12/1989	Fontanes et al.
4,888,557	12/1989	Puckette, IV et al.
4,890,302	12/1989	Muilwijk
4,893,316	01/1990	Janc et al.
4,893,341	01/1990	Gehring
4,894,766	01/1990	De Agro
4,896,152	01/1990	Tiemann
4,902,979	02/1990	Puckette, IV
4,908,579	03/1990	Tawfik et al.
4,910,752	03/1990	Yester, Jr. et al.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

Page 8 of 45

PATENT NO: 7,209,725

DATED: April 24, 2007

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 7)

Please add the following references: 4,914,405 04/1990 Wells

4,914,405	04/1990	Wells
4,920,510	04/1990	Senderowicz et al.
4,922,452	05/1990	Larsen et al.
4,931,716	06/1990	Jovanovic et al.
4,931,921	06/1990	Anderson
4,943,974	07/1990	Motamedi
4,944,025	07/1990	Gehring et al.
4,955,079	09/1990	Connerney et al.
4,965,467	10/1990	Bilterijst
4,967,160	10/1990	Quievy et al.
4,970,703	11/1990	Hariharan et al.
4,982,353	01/1991	Jacob et al.
4,984,077	01/1991	Uchida
4,995,055	02/1991	Weinberger et al.
5,003,621	03/1991	Gailus
5,005,169	04/1991	Bronder et al.
5,006,810	04/1991	Popescu
5,010,585	04/1991	Garcia
5,014,130	05/1991	Heister et al.
5,014,304	05/1991	Nicollini et al.
5,015,963	05/1991	Sutton
5,017,924	05/1991	Guiberteau et al.
5,020,149	05/1991	Hemmie
5,020,154	05/1991	Zierhut
5,052,050	09/1991	Collier et al.
5,063,387	11/1991	Mower

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 9 of 45

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

It is certified that error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below.

Title Page, Item [56], U.S. PATENT DOCUMENTS Section (Continued from page 8)

Please add the following references:

ricase au	riease and the following references.		
5,065,409	11/1991	Hughes et al.	
5,083,050	01/1992	Vasile	
5,091,921	02/1992	Minami	
5,095,533	03/1992	Loper et al.	
5,095,536	03/1992	Loper	
5,111,152	05/1992	Makino	
5,113,094	05/1992	Grace et al.	
5,113,129	05/1992	Hughes	
5,115,409	05/1992	Stepp	
5,122,765	06/1992	Pataut	
5,124,592	06/1992	Hagino	
5,126,682	06/1992	Weinberg et al.	
5,131,014	07/1992	White	
5,136,267	08/1992	Cabot	
5,140,699	08/1992	Kozak	
5,140,705	08/1992	Kosuga	
5,150,124	09/1992	Moore et al.	
5,151,661	09/1992	Caldwell et al.	
5,159,710	10/1992	Cusdin	
5,164,985	11/1992	Nysen et al.	
5,170,414	12/1992	Silvian	
5,172,019	12/1992	Naylor et al.	
5,172,070	12/1992	Hiraiwa et al.	
5,191,459	03/1993	Thompson et al.	
5,204,642	04/1993	Ashgar et al.	
5,212,827	05/1993	Meszko et al.	
5,214,787	05/1993	Karkota, Jr.	

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

Page <u>10</u> of <u>45</u>

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 9)

Please add the following references:

5,220,583	06/1993	Solomon
5,220,680	06/1993	Lee
5,222,144	06/1993	Whikehart
5,230,097	07/1993	Currie et al.
5,239,686	08/1993	Downey
5,239,687	08/1993	Chen
5,241,561	08/1993	Barnard
5,249,203	09/1993	Loper
5,251,218	10/1993	Stone et al.
5,251,232	10/1993	Nonami
5,260,970	11/1993	Henry et al.
5,263,194	11/1993	Ragan
5,263,196	11/1993	Jasper
5,263,198	11/1993	Geddes et al.
5,267,023	11/1993	Kawasaki
5,278,826	01/1994	Murphy et al
5,282,023	01/1994	Scarpa
5,287,516	02/1994	Schaub
5,293,398	03/1994	Hamao et al.
5,303,417	04/1994	Laws
5,307,517	04/1994	Rich
5,315,583	05/1994	Murphy et al
5,319,799	06/1994	Morita
5,321,852	06/1994	Seong
5,325,204	06/1994	Scarpa
5,337,014	08/1994	Najle et al.
5,339,054	08/1994	Taguchi

MAILING ADDRESS OF SENDER (Please do not use customer number below):

1100 New York Avenue, NW Washington DC 20005-3934 Atty. Dkt. No. 1744.0250001

UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page 11 of 45

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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<u>Title Page, Item [56], U.S. PATENT DOCUMENTS Section</u> (Continued from page 10)

Please add the following references:

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UNITED STATES PATENT AND TRADEMARK OFFICE CERTIFICATE OF CORRECTION

Page <u>12</u> of <u>45</u>

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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Atty. Dkt. No. 1744.0250001

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PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

DATED: April 24, 2007

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PATENT NO: 7,209,725

DATED: April 24, 2007

INVENTOR(S): Sorrells et al.

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INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

DATED:

April 24, 2007

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PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

DATED: A

April 24, 2007

INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

DATED:

April 24, 2007

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PATENT NO: 7,209,725

DATED: April 24, 2007

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DATED: April 24, 2007.

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DATED:

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Page <u>27</u> of <u>45</u>

PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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PATENT NO: 7,209,725

DATED:

April 24, 2007

INVENTOR(S): Sorrells et al.

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INFORMATION DISCLOSURE STATEMENT MADEMARY OF

ATTY. DOCKET NO. 1744.0250001 APPLICATION NO. 09/476,092

APPLICANT Sorrells et al.

FILING DATE

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MM	AD1	2,2	83,575	05/1	942	Rob	erts		50	6	Technology
MM	AE1	2,3	58,152	09/1	944	Earp			79	171.5	2 1
MM	AF1	2,4	10,350	10/1	946	Labi	n et al.	13	79	15	Se
MM	AG1	2,4	51,430	10/1	948	Baro	ne	25	50	8	WE CO
N	AH1	2,4	62,069	02/1	949	Cha	tterjea et al.	25	50	17	100
WM)	Al1	2,4	62,181	02/1	949	Gros	sselfinger	25	50	17	6
					FOREIGN	PAT	ENT DOCUMENTS				· · · · · · · · · · · · · · · · · · ·
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CI	ASS	SUB- CLASS	TRANSLATION
MM	AJ1 ,	DE	42 37 692 C1		03/1994		DE	н	04B	1/26	N
NM	AK1	EP (035 166 A1		09/1981		EP	н)4B	1/26	No
NM	AL1	EP () 193 899 B1		06/1990		EP	G	018	7/52	N/A
NM	AM1	EP C	380 351 A2		08/1990		EP	н	3Н	17/04	N/A
<u> </u>			OTHER	(Inch	ding Autho	or, Ti	tle, Date, Pertinent P	ages, etc.)			· · · · · · · · · · · · · · · · · · ·
NM	AN	1	Aghvami, H. 6 Fourth Interno 147-153 (Oct	ıtional	Conterence	on Si	ellites Using the Highly atellite Systems for Mob	Elliptic Orb ile Commu	its- The nications	UK T-SAT M s and Navigo	obile Payload," ation, IEE, pp.
NM	AO	1	Akers, N.P. et 49 (January 1	al., "R 986).	F Sampling	Gates	s: a Brief Review," <i>IEE P</i>	roceedings,	IEE, Vo	l. 133, Part /	4, No. 1, pp. 45-
NM	AP	1	Al-Ahmad, H Techniques fo IEE, pp. 4/1-4	r CEK	and I-SAI,	," Elec	equency Correction for tronics Division Colloqu	a Non-Geo vium on Low	stationa Noise	ary Commun Oscillators a	ications Satellite. nd Synthesizers,
N)	AQ	1	Ali, l. <i>et al.</i> , "D 46, No. 3, pp.	opple 309-	r Characteri 313 (March	zatioi 1998	n for LEO Satellites," <i>IEI</i>).	EE Transacti	ons on (Communicat	ions, IEEE, Vol.
Nm	AR	1	Allan, D.W., "Stability, IEEE,	itatisti pp. 2:	cs of Atomic 21-230 (Feb	: Freq	uency Standards," Proc 1966).	eedings Of	The IEEL	Special Issu	e on Frequency
XAMINER	1)	K	Colix)~ \				CONSI	DERED	· · · · · · · · · · · · · · · · · · ·
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FORM PTO-1449

INFORMATION DISCLOSURE STREEMENT ADEMARKS

ATTY. DOCKET NO. 1744.0250001 09/476,092

APPLICANT Sorrells et al.

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					U.S. P	ATEN	T DOCUMENTS			7	
ÉXAMINER INITIAL			CUMENT MBER	DAT	E	NAA	AE	CL	ASS	SUB- CLASS	FILING DAT
WM	AA2	2,4	72,798	06/1	949	Fred	endall	17	8	44	
NM	AB2	2,4	97,859	02/1	950	Bou	ghtwood et al.	25	0	8	ie e
MA	AC2	2,4	99,279	02/1	950	Pete	rson	33	2	41	量台
MM	AD2	2,8	02,208	08/1	957	Hob	bs	34	3	176	五日
NM	AE2	2,9	85,875	05/1	961	Gris	dale et al.	34	3	100	1 1
N.M.	AF2	_	23,309	02/1	962	Foul	kes	25	0	17	AN 1 4 200 hoov Genter
NM	AG2		69,679	12/1	962	Swe	eney et al.	34	3	200	2002
NM	AH2		04,393	09/1		Vog	elman	34	3	200	260
$N_{\mathcal{M}}$	Al2	3,1	14,106	12/1	963	McN	anus	32	5	56	
					FOREIGN	I PAT	ENT DOCUMENTS				
EXAMINER INITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATIC
NM	AJ2	EP C	380 351 A3		02/1991	-	EP	НО	3H	17/04	1
alm	AK2	EP C	411 840 A2		02/1991		EP	GO	1R	33/36	1
NAM	AL2	EP 0	411 840 A3		07/1991		EP	G0	1R	33/36	١
NM	AM2	EP 0	411 840 B1		10/1995		EP	G0	1R	33/36	N
			OTHER	(Incl	uding Auth	or Ti	tle, Date, Pertinent P	ages etc.)			
NM NM	AN	2	Allstot, D.J. a	nd Blo	-814 (Decen	nber 1	pacitor Ladder Filters," 1978). nological Design Consi	iderations fo	or Mono	olithic MOS :	Switched-
NM	AP	2	Alouini, M. e	al., "(Channel Cha	oracte	rization and Modeling (5, No. 6, pp. 981-997 (for Ka-Band	Very Si		
NM	AQ	2	Andreyev, G. Propagation 43, No. 12, p	in a Tu	urbulent Atm	nosph	nase Distortions of Keye ere," Telecommunication 88).	ed Millimete ns and Radio	r-Wave Engine	Signals in tl eering, Scrip	he Case of ta Technica, Vo
NM	AR	2	Antonetti, A. Holland Publi	et al., ishing	"Optoelectro	onic S /ol. 2	ampling in the Picosecc 1, No. 2, pp. 211-214 (ond Range," May 1977).	Optics	Communica	tions, North-
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FORM PTO-14 INFORMATION DISCLOSURE STATEMENTS

ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092

APPLICANT Sorrells et al.

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					U.S. P	ATEN	T DOCUMENTS				
ÉXAMINER INITIAL			CUMENT MBER	DAT	E	NAA	AE	CLA		SUB- CLASS	FILING DATE
NM	AA3	3,11	8,117	01/1	964	King	et al.	332		22	¥ , D
a.l.M	AB3	1	6,643	12/1	965	McN	air	325	4	10	B D III
KIM	AC3	3,25	8,694	06/1	966	She	herd	325	1	45	平山洲
HM	AD3	3,38	3,598	05/1	968	Sand	lers	325	1	63	9 4 7
/// h	AE3	3,38	4,822	05/1	968	Miyo	ıgi	325	3	10	
NM	AF3	3,45	4,718	07/1	969	Perr	eault	1 <i>7</i> 8	6	6	26 00
NM	AG3	3,52	3,291	08/1	970	Pierr	et	340	3	147	8
NM	AH3	3,54	8,342	12/1	970	Мах	еу	332	9)	
NM	Al3	3,55	5,428	01/1	971	Perr	eault	325	3	20	
					FOREIGN	V PAT	ENT DOCUMENTS				
EXAMINER NITIAL		рос	CUMENT NUM	BER	DATE		COUNTRY	CLAS		SUB- CLASS	TRANSLATION
NIM	AJ3	EP 0	423 718 A2		04/1991		EP	H04		//01	N/
NM	AK3	EP 0	423 718 A3		08/1992		EP	H04	N 7	//01	N/.
NM	AL3	EP 0	486 095 A1		05/1992		EP	H03	D 3	3/00	N/
Wan	EWA	EP 0	486 095 B1		02/1997		EP	H03	D 3	3/00	N/A
			OTHE	(Incl	uding Auth	nor, Ti	tle, Date, Pertinent	Pages, etc.)		,	
Nm	AN	<u>3</u>	Austin, J. et e European Mi 15, 1988).	al., "De crowa	oppler Corre ve Conferen	ection ice, M	of the Telecommunica crowave Exhibitions a	ntion Payload C nd Publishers L	Oscillators td., pp. 8	s in the U 51-857	JK T-SAT," 18 th (September 12 -
WM	AO	<u>3</u>	Auston, D.H Institute of P	., "Pico hysics,	second opto Vol. 26, No	oelectr o. 3, p	onic switching and ga p. 101-103 (February	ting in silicon," 1, 1975).	Applied	Physics L	etters, American
NM	AP	<u>3</u>					itched-Capacitor and ns Society, Vol. CAS-3				
NM	AQ	3	Báines, R., "1 (May 1995).	he DS	P Bottleneck	k," IEE	E Communications Ma	gazine, IEEE Co	ommunic	ations Sc	ociety, pp. 46-54
Nos	AR	<u>3</u>					or Probabilities on Ear 7, pp. 296-297 (March		Subject t	o Scintill	ation Fading,"
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ATTY. DOCKET NO.
1744.0250001
APPLICANT
Sorrells et al.

FILING DATE

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GROUP FILING DATE January 3, 2000 2682 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-FILING DATE NUMBER **CLASS** AA4 3,617,892 11/1971 Hawley et al. 325 145 AB4 3,621,402 11/1971 Gardner 328 37 AC4 3,623,160 11/1971 Giles et al. 340 347 DA AD4 3,626,417 12/1971 Gilbert 343 203 AE4 12/1971 3,629,696 **Bartelink** 324 57 R AF4 3,662,268 05/1972 325 56 Gans et al. AG4 3,689,841 09/1972 Bello et al. 39 325 AH4 3,714,577 01/1973 325 145 Hayes Al4 3,717,844 02/1973 340 5 R Barret et al. **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY **CLASS** SUB-TRANSLATION **CLASS** AJ4 EP 0 512 748 A2 11/1992 ΕP H04N 9/64 N/A AK4 EP 0 512 748 A3 07/1993 EP H04N 9/64 N/A AL4 EP 0 512 748 B1 11/1998 EP H04N 9/64 N/A EP 0 548 542 A1 AM4 06/1993 ΕP **H03B** 19/14 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Banjo, O.P. and Vilar, E., "The Dependence of Slant Path Amplitude Scintillations on Various Meteorological AN 4 Parameters," Fifth International Conference on Antennas and Propagation (ICAP 87) Part 2: Propagation, IEE, pp. 277-280 (March 30 - April 2, 1987). Banjo, O.P. and Vilar, E. "Measurement and Modeling of Amplitude Scintillations on Low-Elevation Earth-AO Space Paths and Impact on Communication Systems," IEEE Transactions on Communications, IEEE 4 Communications Society, Vol. COM-34, No. 8, pp. 774-780 (August 1986). Banjo, O.P. et al., "Tropospheric Amplitude Spectra Due to Absorption and Scattering in Earth-Space Paths," AP 4 Fourth International Conference on Antennas and Propagation (ICAP 85), IEE, pp. 77-82 (April 16-19, 1985). Basili,P. et al., "Case Study of Intense Scintillation Events on the OTS Path," IEEE Transactions on Antennas AQ 4 and Propagation, IEEE, Vol. 38, No. 1, pp. 107-113 (January 1990). Basili, P. et al., "Observation of High C² and Turbulent Path Length on OTS Space-Earth Link," Electronics AR 4 Letters, IEE, Vol. 24, No. 17, pp. 1114-1116 (August 18, 1988).

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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

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N.M	AA5	_	5,048	05/1	973	Tom	nsa et al.	17	9		2 7
NW	AB5		6,811	04/1		Tho	mpson	32	5	146	3 4 名
NM	AC5	3,86	8,601	02/1	975	Mac	:Afee	33	2	45	JAN 1 4 2002 JAN 1 4 2002
NM	AD5	3,94	9,300	04/1	976	Sad	ler	32	5	31	6 - 11
NW	AE5		7,202	06/1	976	Batz	<u> </u>	32	5	31	3 2
NW	AF5		0,945	09/1	976	Bick	ford	32	5	30	1 3 F
ŊM	AG5	1	7,280	10/1	976	Bau	er	23	5	150.53	1 8
NM	AH5	- 1	1,277	11/1	976	Hiro	ıta	17	9	15 FD	
NW	AI5		3,002	01/1	977	Snij	ders et al.	33	2	10	
							ENT DOCUMENTS				
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INITIAL		DOG	CUMENT NUM	BER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
NM	AJ5	EP 0	632 288 A2		01/1995		EP	GO	15	13/75	N/A
UM	AK5	EP 0	632 288 A3		07/1996		EP	GO	15	13/75	N/A
NM	AL5	EP 0	696 854 A1		02/1996		EP	НО	4B	1/26	N/A
NM	AM5	EP 0	782 275 A2		07/1997		EP	но	4B	7/02	N/A
		· · · · · · ·	OTHER	R (Incl	uding Auth	ior, T	itle, Date, Pertinent f	ages, etc.)			
NM	АН	<u>5</u>					Atmospheric Millimetre 21, No. 11, pp. 486-4				Absorption
MW	AO	<u>5</u>		ons," d	annales des		n gauge integration tin ommunications, Interna				
NM	AP	<u>5</u>	Application t	o Micr	owave Com	muni	nt Statistical Analysis of cations," Fifth Internation p. 198-201 (March 30	nal Confere	nce on a		
NM	AQ	<u>5</u>		ions,"	Sixth Interno	ationa	istics of Precipitation Ro Il Conference on Antenr I 4-7, 1989).				
-WM	AR	<u>5</u>					sis of 49 Years of Rainfa EE Communications So				
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al. FILING DATE

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January 3, 2000 2682 **U.S. PATENT DOCUMENTS** ÉXAMINER INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-**FILING DATE NUMBER CLASS** AA6 4,013,966 363 03/1977 Campbell 325 MLAAB6 4,019,140 04/1977 Swerdlow 322 65 r) w MIA AC6 4,035,732 07/1977 Lohrmann 325 446 AD₆ 4,047,121 09/1977 76 Campbell 331 M AE6 4,066,841 01/1978 NM Young 178 66 R NM AF6 4,066,919 01/1978 Huntington 307 353 NM AG6 4,081,748 03/1978 Batz 325 56 IM AH6 4,130,765 12/1978 Arakelian et al. 307 220 R Al6 4,130,806 12/1978 Van Gerwen et al. 325 487 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY > **CLASS** SUB-**TRANSLATION** CLASS AJ6 EP 0 785 635 A1 07/1997 EP **H04B** 1/713 No AK6 EP 0 795 978 A2 09/1997 EΡ H04L 5/06 NM N/A AL6 EP 0 837 565 A1 04/1998 ΕP H04B 1/69 N/A EP 0 862 274 A1 AM6 09/1998 EP **H03M** 1/06 N/A OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Catalan, C. and Vilar, E., "Approach for satellite slant path remote sensing," Electronics Letters, IEE, Vol. 34, AN <u>6</u> No. 12, pp. 1238-1240 (June 11, 1998). Chan, P. et al., "A Highly Linear 1-GHz CMOS Downconversion Mixer," European Solid State Circuits AO 6 Conference, IEEE Communication Society, pp. 210-213 (September 22-24, 1993). Copy of Declaration of Michael J. Bultman filed in patent application Ser. No. 09/176,022, which is directed ΑP <u>6</u> to related subject matter. Copy of Declaration of Robert W. Cook filed in patent application Ser. No. 09/176,022, which is directed to AQ <u>6</u> related subject matter. Copy of Declaration of Alex Holtz filed in patent application Ser. No. 09/176,022, which is directed to AR <u>6</u> related subject matter. **EXAMINER DATE CONSIDERED**

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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

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NM	AA7	4,1	42,155	02/	1979	Ada	chi	32	5	47	1
NM	AB7	4,1	70,764	10/	1979	Salz	et al.	33	2	17	71
NM	AC7	4,2	204,171	05/	1980	Sutp	hin, Jr.	32	8	167	10 (
ivm	AD7	4,2	10,872	07/	1980	Greg	gorian	33	0	9	量量の
UM	AE7	4,2	45,355	01/	1981	Pasc	oe et al.	45	5	326	CG T III
NM	AF7		253,066	02/	1981	Fishe	er et al.	32	9	50	1 4 2002 Center 2600
WM	AG7	4,2	53,069	02/	1981	Nos	sek .	33	0	107	2 2 1
NM	AH7		08,614	1	1981	+	er et al.	37	0	119	00
NM	AI7	4,3	20,361	03/	1982	Kikk	ert	33:	2	16 R	
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EXAMINER INITIAL		DC	CUMENT NUM	NBER	DATE		COUNTRY	CL	ASS	SUB- CLASS	TRANSLATION
NM	AJ7	EP	0 874 499 A2		10/1998		EP	но	4L	25/06	N/A
ЮM	AK7	FR	2 743 231 A1		07/1997		FR	но	4B	7/12	No
DM	AL7	GB	2 161 344 A		01/1986		GB	Но	4B	7/12	N/A
NM	AM7	GB	2 215 945 A		09/1989	_	GB	НО	4L	27/00	N/A
			OTHE	R (Inc	luding Auth	or, Ti	tle, Date, Pertinent Pag	es, etc.)			·
	AN	Z	related subje	aratic	n of Charley	y D. M	oke filed in patent applica				
	AP	Z	Copy of Deci	aratio	on of Jeffrey I	L. Park	er and David F. Sorrells, vich is directed to related s	with attac subject mo	hment atter.	Exhibit 1, fil	ed in patent
	AQ	7	Dewey, R.J. o	and Co Radio	ollier, C.J., "A os, IEE, pp. 3,	Multi-A /1-3/5	Mode Radio Receiver," <i>Elec</i> 5 (October 18, 1985).	ctronics D	ivision	Colloquium (on Digitally
	AR	Z	DIALOG File 1990, (1 Pag	347 (e).	JAPIO) Engli	ish Lan	guage Patent Abstract for	· JP 2-276	351, р	oublished No	vember 13,
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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

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NIM	AA8	4,3	20,536	03/1	982	Diet	ich	455	325	4
NM	AB8	4,3	46,477	08/1	982	Gord	ly	455	257	Technolog)
MM	AC8	4,3	55,401	10/1	982	lkom	a et al.	375	5	mojog
DM	AD8	4,3	56,558	10/1	982	Owe	n et al.	364	724	8
DW,	AE8	4,3	60,867	11/1	982	Gon	da	363	158	Cantar 200
NM	AF8	4,3	63,132	12/1	982	Colli	n	455	52	1 1
N-M	AG8	4,3	65,217	12/1	982	Berg	er et al.	333	165	2
NM	AH8		70,572	01/1			ınd et al.	307	353	79
NM	AI8		89,579	06/1		Stein	~~~	307	353	
		1 -7-					ENT DOCUMENTS	1007	1000	
AMINER ITIAL		DO	CUMENT NUM	BER	DATE		COUNTRY	CLASS	SUB- CLASS	TRANSLATIO
Nin	AJ8	JP 2	2-39632		02/1990		JP .	Н04В	7/12	ı
NM	AK8	JP 2	2-131629		05/1990		JP	Н04В	7/12	1
MUI	AL8	JP 2	2-276351		11/1990		JP	H04L	27/22	
Nω	8MA	wo	80/01633 A1		08/1980		PCT	H04J	1/08	N
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	AN	<u>8</u>	DIALOG File Page).	347 (.	JAPIO) Engli	ish Lar	iguage Patent Abstract	for JP 2-13162	9, published M	ay 21, 1990, (1
	AO	8	DIALOG File Page).	347 (.	JAPIO) Engli	ish Lar	nguage Patent Abstract	for JP 2-39632	, published Fel	oruary 8, 1990, (1
	AP	8	DIALOG File December 20	348 (I	European Po 6, (3 Pages)	atents)	English Language Pate	ent Abstract for	EP 0 785 635 A	A1, published
	AQ	<u>8</u>	DIALOG File 18, 1981, (2	348 (I Pages	European Po).	atents)	English Language Pate	ent Abstract for	EP 35166 A1,	oublished Februa
	AR	8	"DSO takes s	amplir 9 (Mai	ng rate to 1 rch 1987).	Ghz,"	Electronic Engineering	, Morgan Gram	pian Publishers	, Vol. 59, No. 72
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FORM PTO-1449 JAN 1 1 2002 INFORMATION DISCLOSURE TATEMENT AND TRADEMAN

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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Sorrells et al.

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ÉXAMINER INITIAL		DOCUMENT NUMBER	DAT	E	NAMI	E	C	CLASS	SUB- CLASS	FILING DATE
MW	AA9	4,392,255	07/1	1983	Del G	iudice	4	55	328	
NW	AB9	4,430,629	02/1	984	Betzl	et al.	3	33	165	JAN TOO
NM	AC9	4,446,438	05/1	1984	Chan	g et al.	3	28	127	14 C
NM	AD9	4,456,990	06/1	1984	Fisher	et al.	3	70	119	
NM	AE9	4,472,785	09/1	1984	Kasug	ja	3	64	718	STATE OF
NM	AF9	4,479,226	10/1	1984	Prabh	u et al.	3	75	1	SIL CO
NM	AG9	4,481,490	11/1	984	Huntl	еу	3	32	41	822
UM	AH9	4,481,642	11/1	1984	Hanse	on	3	75	9	000
NM	Al9	4,485,488	11/1	984	Houd	art	4	55	327	1.
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NM	AJ9	WO 94/05087	A1	03/1994		PCT	F	103M	1/00	N,
NM	AK9	WO 96/02977	Al	02/1996		PCT	۲	104B	1/26	· N,
NM	AL9	WO 96/08078	A1	03/1996		PCT	F	103D	3/00	N,
MM.	AM9	WO 96/39750	Àl	12/1996		PCT	F	104B	1/26	N,
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· · · · · · · · · · · · · · · · · · ·		Ratio," IE Faulkner Microwa	, N.D. and	d Vilar, E., "S	ate Circ	ion FET-Less Sample- uits, IEEE, Vol. SC-13 monic Sampling for th ons on Instrumentatio	, No. 6, pp.	864-87	/3 (December Short Term Sto	1978).
	AP	Faulkner Microwa		al., "Sub-Har tors," CPEM		Sampling for the Acco				
	AQ	Faulkner Counter 82 (1984	Technique	d Vilar, E., "T es," CPEM 84	ime Do 4 Digest	main Analysis of Fred Conference on Precis	quency Stal sion Electro	oility Usi magneti	ng Non-Zero (c Measuremen	Dead-Time its, IEEE, pp. 81
	AR	9 Amplitud	e Scintilla	tions and Ro	ain Atte	cation of the Channel nuation," IEEE Transa 65 (November 1990)	ctions on C	of a Sate communi	llite Link in the ications, IEEE C	e Presence of Communication
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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

FILING DATE January 3, 2000 GROUP 2682

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NM	AA10	4,504,803	03/1	985	Lee et	al.	332	31 R	
200	AB10	4,517,519	05/1	985	Mukai	yama	329	126	2
NM	AC10	4,517,520	05/1	985	Ogaw	a	329	145	JAN TOO
NM	AD10	4,518,935	05/1	985	van Ro	permund	333	173	2 7 7
NM	AE10	4,521,892	06/1		Vance	et al.	375	88	2
MM	AF10	4,563,773	07/1		Dixon	, Jr. et al.	455	327	Se Jo
MUI	AG10	4,577,157	03/1		Reed	,	329	50	6, 0
NW	AH10	4,583,239	04/1		Vance	,	375	94	- B.
DM	AI10	4,591,736	05/1		Hirao		307	267	8
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NM	AK10	WO 98/0095	3 A1	01/1998		PCT	H04L	27/26	N/.
D'M	AL10	WO 98/2420	1 A1	06/1998		PCT	H04H	1/00	N/
Nm	AM10	EP 0 099 265	A1	01/1984		EP	H03D	3/04	N/
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	AN ·					Signaling Filter with ((December 1984).	Q Reduction," IEEE .	Journal of Soli	d-State Circuits,
	AO	10 Fukuchi H: Micro	, H. and O owaves, An	tsu, Y., "Ava tennas and I	ilable ti Propago	me statistics of rain a tion, IEE, Vol. 135, P	ttenuation on earth t. H, No. 6, pp. 387	n-space path," 7-390 (Decem	IEE Proceedings ber 1988).
	AP					etre-wave propagation 73 (April 1987).	n through hydrocai	rbon flame," (l	EE Proceedings,
	AQ	10 Gilchris Publishi	t, B. et al., ' ng, Vol. 23	"Sampling h , No. 1, pp.	ikes per 93-94	formance of frequen and 110 (January 19:	cy synthesizers," <i>Mi</i> 84).	crowaves & Rf	, Hayden
	AR					ological effects on pro , Yol. 16, No. 5, pp. !			
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ATTY. DOCKET NO. 1744.0250001 APPLICATION NO. 09/476,092

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NM	AB12	4,6	75,882	06/1	987	Lillie	et al.	37	75	80	RECT JANA
MM	AC12	4,6	88,253	08/1	987	Gun	nm	38	31	7	量量で
NM	AD12	4,7	16,376	12/1	987	Dau	delin	32	29	107	8 2
MM	AE12	4,7	16,388	12/1	987	Jaco	bs .	33		173	Center 100
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NA	AG12	4,7	26,041	02/1	988	Proh	aska et al.	37		91	100 P
NM	AH12		33,403	03/1		Simo		37		103	8
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NM	AK12	wo	98/40968 A2	&A3	09/1998		PCT	Н)3L	7/08	N/
NM	AL12	EP C) 529 836 A1		03/1993	,	EP	Н)3L	7/089	N/
Man	AM12	EP C	795 955 A2&	A3	09/1997		EP	Н)3D	13/00	N/
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· ·	AN .	12	Hafdallah, H (February 4,	. et al. 1988)	, "2-4 Ghz A	AESFE	T Sampler," Electronics	Letters, IEE,	Vol. 24	4, No. 3, pp.	151-153
	AO	<u>12</u>	Herben, M.H Ghz," Electro	.A.J., ' nics Le	'Amplitude o otters, IEE, Vo	and Ph ol. 18,	ase Scintillation Measu No. 7, pp. 287-289 (A	prements or pril 1, 198	n 8-2 kr 2).	n Line-Of-Si	ght Path at 30
	AP	<u>12</u>	Hewitt, A. et Measuremen 1985)	al., "A ts for l	n 18 Ghz W Telecommun	ideba ication	nd LOS Multipath Exper Transmission Systems	riment," Inte - MTTS 85,	ernation IEE, pp	nal Conferenc . 112-116 (N	te on lovember 27-28,
	AQ	12	Hewitt, A. et Measuremen 1136-1143 (ts," IEE	EE Transactio	ons on	Approach to the Identifi Communications, IEEE	ication of M Communic	ultipatl ations	n Ray Parame Society, Vol.	eters from Field 37, No. 11, pp.
	AR	<u>12</u>	Hewitt, A. an Measuremen No. 7, pp. 78	t Tech	niques," <i>IEEI</i>	E Tran	ling on LOS Microwave sactions on Communica	Links: Clas	sical ar Comm	nd Spread-Sp unications Sc	ectrum ociety, Vol. 36,
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Ven	AA13	4,73	7,969	04/1	988	Steel	et al.	37	5	67	
NIM	AB13	4,74	3,858	05/1	988	Ever	ard	33	0	10 %	1 H
100	AC13	4,74	5,463	05/1	988	Lu		35	8	23 3	1 C
NM	AD13	4,75	1,468	06/1	988	Agos	ton	32	8	133	50
NM	AE13	 	7,538	07/1		Zink		38		7 9	ZA
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WM	AG13		9,612	09/1			akoshi et al.	32		167	2002 2002
NM	AH13		5,463	11/1			et al.	37		1	8
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Nm	AJ13	EP 0	817 369 A2&	A3	01/1998		EP	но	3D	7/00	N/A
NM	AK13	wo	91/18445 A1		11/1991		РСТ	НО	3D	7/18	N/A
MM	AL13	wo	99/23755 A1		05/1999		PCT	НО	3D	7/16	N/A
NM	AM13	JP 5	6-114451		09/1981		JP	но	4B	7/02	No
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	AN	<u>13</u>	Hospitalier, I IEE, Vol. VII,				rding and Observing Rap	oidly Varyir	ng Phen	omena," Scie	ence Abstracts,
	AO	<u>13</u>	Detection," T	he Ins	titution of Er	nginee	Demodulating High Frequents Australia Vibration and 8-20, 1990).				
	AP .	<u>13</u>		t. of E			nd-Hold Amplifier for FM puter Engineering, Unive				
	AQ	<u>13</u>	Hung, H-L. A Sampling Sys	A. et al stem,"	., "Characte IEEE MTT-S	rizatio Digesi	n of Microwave Integrate, IEEE, pp. 507-510 (199	ed Circuits 71).	Using A	n Optical Ph	nase-Locking and
	AR .	<u>13</u>					esponse of Switched-Cap , IEEE Circuits and Systen				
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INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001 09/476,092 APPLICANT Sorrells et al.

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MM	AA15	+	70,659	09/1	1989	Ois	hi et al.	37	5	82	
AIM	AB15		71,987		1989		/ase	33:		100	a 70
MM	AC15		35,587		1989		gand et al.	42	<u> </u>	14	图 万
NM	AD15		35,756	_	989	_	tanes et al.	37	<u>5</u>	82	0 Z
NA	AE15		38,557	1	1989	_	kette, IV et al.	32		341	Contra 20
WM	AF15		20,302	12/1			lwijk	37		80	1 P 2
AM	AG15		3,316	01/1			c et al.	37		44	2002 mier 2
MM	AH15	_	3,341	01/1		_	ring	38		7	4 2002 Center 2500
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No	AJ15	JP 6	-237276		08/1994		JP	НО	4L	27/20	N
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<i>k</i>	AN	15 15	Transactions 1608-1614 Kirsten, J. an	on And	nber 1988).	lersa	m Method for Tropospher gation, IEEE Antennas an mpling reduces data-acq , pp. 217-222, 224, 226	d Propagat	ts for s	ciety, Vol. 36	5, No. 11, pp.
	AP	<u>15</u>	Lam, W.K. et Identifier," Pr (June 2-4, 19	oceedi	Acasurement ings Of the 1	of th	ne Phase Noise Character IEEE International Freque	istics of an	Unloc Symp	ked Commu osium, IEEE,	nications Channe pp. 283-288
	AQ	<u>15</u>	Lam, W.K. et No. 9, pp. 73	al., "№ 88-739	Videband sou P (April 28, 1	undin 994)	ng of 11.6 Ghz transhoriz	on channel	," Elec	tronics Letter	s, IEE, Vol. 30,
	AR	<u>15</u>	Lorkin, K.G., 2, pp. 101-1	"Efficie 02 (Jai	ent demodulo nuary 18, 19	ator f 96).	or bandpass sampled AM	l signals," E	lectro	nics Letters, II	EE, Vol. 32, No.
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ATTY. DOCKET NO. 1744.0250001 APPLICATION NO. 09/476,092

APPLICANT

Sorrells et al.

FILING DATE
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XIM	AA16	4,89	6,152	01/1	990	Tiem	ann	340	853	
IM	AB16	4,90	2,979	02/1	990	Puck	ette, IV	329	343	
MM	AC16	4,90	8,579	03/1	990	Tawf	k et al.	328	167	JAN 1
MAA	AD16	_	0,752	03/1	990	Yeste	er, Jr. et al.	375	75	言し
KIM	AE16		4,405	04/1	9.90	Wells		331	25	MAN JAN
WAY	AF16		0,510	04/1	990	Send	erowicz et al.	364	825	2 -
Nen	AG16	4,92	2,452	05/1	990	Larse	n et al.	365	45	Gente:
MM	AH16	4,93	1,921	06/1	990	Ande	rson	363	163	6
NM	Al16	4,94	14,025	07/1	990	Gehr	ing et al.	455	207	¥
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							ference & Exhibition, IE	сс, рр. 1707-171	(110 TEITIBEI	20 - Decembe
	AO	<u>16</u>	1988). Lau, W.H. ef	al., "Ir	nproved Pro	ny Alg eptem	orithm to Identify Multi per 24, 1987).			
		16 16	1988). Lau, W.H. ef 23, No. 20, Lesage, P. ar	al., "Ir pp. 10 and Auc on Ins	mproved Pro 59-1060 (So doin, C., "Eff trumentation	ect of	orithm to Identify Multi	path Components	," Electronics Sample Varie	Letters, IEE, Vo ance," IEEE
	AP		Lau, W.H. et 23, No. 20, p Lesage, P. ar Transactions 28, No. 1, pp Liechti, C.A., Speed Modu	al., "Ir pp. 10 and Auc on Ins p. 6-10	mproved Pro 59-1060 (So doin, C., "Effi- trumentation 0 (March 19 ormance of [" IEEE Trans	ect of n and 79).	orithm to Identify Multi per 24, 1987). Dead-Time on the Estin	path Components nation of the Two- rumentation and h	," Electronics Sample Vario Aeasuremen	Letters, IEE, Vo ance," IEEE t Society, Vol. In
	AP	16	Lau, W.H. et 23, No. 20, plant of the control of th	al., "Ir pp. 10 and Auc on Ins p. 6-10 "Perfo lators, Society	nproved Pro 59-1060 (So doin, C., "Effi- strumentation 0 (March 19 ormance of C "IEEE Transi v, Vol. MTT-2	ect of n and 79). Dual-gactions: 3, No	orithm to Identify Multiper 24, 1987). Dead-Time on the Estin Measurement, IEEE Institute on Microwaye Theory	path Components nation of the Two- rumentation and h Gain-Controlled L and Techniques, IE 1975).	" Electronics Sample Varia Aeasuremen DW-Noise And EEE Microway	ance," IEE, Vo

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FORM PTO-1449 INFORMATION DISCLOSURE

ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 APPLICANT Sorrells et al. GROUP FILING DATE January 3, 2000 2682

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NM	AA18	5,006,810	04/1991	Popescu	328	167	
NM	AB18	5,010,585	04/1991	Garcia	455	118	
NM	AC18	5,014,304	05/1991	Nicollini et al.	379	399	D
NM	AD18	5,015,963	05/1991	Sutton	329	361	与四
NM	AE18	5,017,924	05/1991	Guiberteau et al.	342	195	
Alm	AF18	5,020,149	05/1991	Hemmie	455	325	
NM	AG18	5,020,154	05/1991	Zierhut	455	608	N M
NM	AH18	5,052,050	09/1991	Collier et al.	455	296	200
λM	Al18	5,065,409	11/1991	Hughes et al.	375	91	OC.

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	AK18						Yes No			
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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NA	AA20	-5,136	6,267-	08/1992		-Gabot			33	174	Technology	
NM	AB20		0,705	08/1		Kosuga			55	318	言。	T
NM	AC20	•	0,124	09/1992		Moore et al.			42	68	용	P T
NM	AD20		1,661	09/1	992	Caldwell et al.			28	14	S	1
Mm	AE20	1	9,710			Cus	Cusdin		55	304	Center 2600	1 4 2002
NM	AF20	1	0,414	12/1		Silvi	Silvian		75	59	द्ध	2007
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A A	AH20		1,459	03/1		Tho	npson et al.	3:	59	133	8	
Ž/~	Al20		4,642	04/1			gar et al.		31	135		
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	AD21			06/1	6/1993			45	5	102	10 H	
	AE21	5,222	2,144	06/1	993	Whil	cehart	38	1	15	ent 4	
	AF21	5,230	0,097	07/1	993	Curr	ie et al.	45	5_	226.1	S N N	
	AG21	5,239	9,686	08/1	993	Dow	ney	45	5	78	8 8 0	
1	AH21	5,24	1,561	08/1	993	Barn	ard	37	5	1	0	
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	AJ23						Yes No
	AK23						Yes No
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1 1 1 1			AR	23	Press Release, "Parkervision, Inc. Announces Fourth Quarter and Year End Results," Lippert/Heilshorn and Associates, 2 Pages (March 1, 1995).

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ATTY. DOCKET NO. 1744.0250001

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	AE27	5,465,071	11/1995	Kobayashi et al.	329	315	夏季前
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1	AH27	5,471,162	11/1995	McEwan	327	92	6 (5)
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	AK27						Yes No
	AL27			-			Yes No
	AM27						Yes No

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	AN	<u>27</u>	Press Release, "Parkervision, Inc. Announces First Significant Sale of Its Cameraman® Three-Chip System," Parkervision Marketing and Manufacturing Headquarters, 2 pages (April 12, 1996).
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Press Release, "ParkerVision and IBM Join Forces to Create Wireless Computer Peripherals," Parkervision

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ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STATEMENT FILING DATE GROUP January 3, 2000 2682 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-**FILING DATE** NUMBER CLASS **AA30** 5,555,453 09/1996 Kajimoto et al. 455 266 **AB30** 5,557,641 09/1996 Weinberg 375 295 AC30 5,557,642 09/1996 Williams 375 316 AD30 5,579,341 11/1996 Smith et al. 375 267 5,579,347 11/1996 Lindquist et al. 375 346 AE30 5,584,068 AF30 12/1996 Mohindra 455 324 AG30 5,592,131 01/1997 Labreche et al. 332 103 **AH30** 5,602,847 02/1997 Pagano et al. 370 484 **AI30** 02/1997 Wilson 5,602,868 375 219 **FOREIGN PATENT DOCUMENTS** EXAMINER INITIAL **DOCUMENT NUMBER** DATE COUNTRY **CLASS** SUB-TRANSLATION **CLASS AJ30** Yes No **AK30** Yes No AL30 Yes No **AM30** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Press Release, "Parkervision, Inc. Announces Private Placement of 990,000 Shares," Parkervision Marketing AN 30 and Manufacturing Headquarters, 2 Pages (September 8, 1997). Press Release, "Wal-Mart Chooses Parkervision for Broadcast Production," Parkervision Marketing and AO 30 Manufacturing Headquarters, 2 Pages (October 24, 1997). Press Release, "Parkervision, Inc. Announces Third Quarter Financial Results," Parkervision Marketing and AP 30 Manufacturing Headquarters, 3 Pages (October 30, 1997). Press Release, "ParkerVision Announces Breakthrough in Wireless Radio Frequency Technology," Parkervision AQ 30 Marketing and Manufacturing Headquarters, 3 Pages (December 10, 1997). Press Release, "Parkervision, Inc. Announces the Appointment of Joseph F. Skovron to the Position of Vice AR 30 President, Licensing - Wireless Technologies," Parkervision Marketing and Manufacturing Headquarters, 2 Pages (January 9, 1998). **EXAMINER DATE CONSIDERED**

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	AB31	5,60	08,531	03/1	997	Hon	da et al.		386	1	1 1
	AC31	5,6	10,946	03/1	997	Tanc	ıka et al.		375	269	Anology 1
	AD31	RE 3	35,494	04/1	997	Nico	llini		327	554	9 -
	AE31	5,6	17,451	04/1	997	Mim	ura et al.		375	340	4 2002 Cente 26
	AF31	5,6	19,538	04/1997 04/1997		Sem	pel et al.		375	328	18 13
	AG31	5,62	21,455			Roge	ers et al.		348	6	2800
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	АР	31	Press Release Marketing an	, "Parl d Mai	kervision, In outacturing (c. Ann Heada	ounces Fourth Quart quarters, 3 Pages (Mai	er and Yec rch 5, 199	er End Fin 8).	ancial Result	s," Parkervision
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		AC32	5,64	0,698	06/1	997	Sher	et al.	45	5	323	S A CELL
		AD32	5,64	8,985	07/1	997	Bjere	ede et al.	37	5	219	
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	\	AF32	5,66	1,424	08/1	997	Tang		32	7	105	7202
		AG32	5,66	3,878	09/1	997	Wall	cer	363	3	159	22
		AH32	5,66	3,986	09/1	997	Striff	ler	37	5	260	8
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		AO	<u>32</u>	Press Release Headquarter				Senior Management Tec 8).	ım," Parker	vision A	Narketing an	d Manufacturing
		АР	<u>32</u>	Press Release Marketing ar	e, "Pari nd Mar	kervision An nufacturing	inoun Head	ces Second Quarter and quarters, 4 Pages (July 30	Six Month), 1998).	Financio	ıl Results," Po	arkervision
		AQ	<u>32</u>					ces Third Quarter and Ni quarters, 3 Pages (Octob			ıl Results," Po	arkervision
y		AR	<u>32</u>	Press Release Marketing ar	e, "Que nd Mar	estar Infoco nufacturing	mm, li Head	nc. Invests \$5 Million in F quarters, 3 Pages (Decem	arkervision ber 2, 199	n Comm 78).	ion Stock," P	arkervision
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Microwave Theory and Techniques, IEEE, Vol. 37, No. 9, pp. 1401-1410 (September 1989).

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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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Sorrells et al.

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	AB36	5,793	,818	08/1	998	Clay	don et al.	375	326	
	AC36	5,802	,463	09/1	998	Zuck	erman	455	208	d 1
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	AE36	5,818	,582	10/1	998	Fern	andez et al.	356	318	8 2 (
	AF36	5,825	,254	10/1	998	Lee		331	25	1 1
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	АР	<u>36</u>	Saul, P.H., "A ESSCIRC 79,	GaA:	s MESFET So p. 5-7 (197	ample 9).	and Hold Switch," Fiftl	n European Solid	State Circuits (Conference-
	AQ '	<u>36</u>	Shen, D.H. e State Circuits	t al., " , IEEE	A 900-MHZ Solid-State	' RF Fre Circui	ont-End with Integrate ts Council, Vol. 31, No	d Discrete-Time o. 12, pp. 1945-	Filtering," <i>IEEE</i> 1954 (Decemb	Journal of Solid- er 1996).
6	AR	<u>36</u>	Shen, X.D. a path," Radio 1995).	nd Vilo Scienc	ar, E., "Anoi ce, America	malous n Geol	transhorizon propago physical Union, Vol. 30	ation and meteo 0, No. 5, pp. 146	rological proce 57-1479 (Septe	sses of a multilink mber-October
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ATTY. DOCKET NO. 1744.0250001

APPLICATION NO. 09/476,092

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Sorrells et al.

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10(0)	AO .	37	Shen, X. et al	I., "Mo	deling Enha	inced S	Vol. 29, No. 17, pp. 1 Spherical Diffraction at y Tracing Methods," IE c wave propagation, IE	nd Troposcatte	ering or	n a Transhor	izon Path with ing techniques
	AP	<u>37</u>	Shen, X. and Electronics Le	Vilar, etters,	E., "Path los IEE, Vol. 32,	ss stati , No. 3	stics and mechanisms B, pp. 259-261 (Februa	of transhorizo ary 1, 1996).	n propo	agation over	a sea path,"
	AQ.	<u>37</u>					ed Discrete-Time Filter . 54-55 and 417 (Febi		ind," IEE	E Internatio	nal Solid State
	AR	<u>37</u>	Spillard, C. e Conditions," pp. 451-455	Sixth I	nternational	Confe	eric Transhorizon Propo erence on Antennas an	agation Under d Propagation	r Differii (ICAP 8	ng Meteorol 39) Part 2: P	ogical ropagation, IEI
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Únion, Vol. 24, No. 2, pp. 160-178 (March-April 1989).

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Page 41 of 53 ATTY. DOCKET NO. APPLICATION NO. 1744.0250001 09/476,092 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE FILING DATE GROUP A TRADE January 3, 2000 2682 **U.S. PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT** DATE NAME **CLASS** SUB-**FILING DATE** NUMBER **CLASS AA41** 5,515,014 05/1996 **Troutman** 332 178 AB41 5,563,550 10/1996 Toth 329 347 AC41 5,574,755 11/1996 Persico 375 295 AD41 5,604,592 02/1997 Kotidis et al. 356 357 AE41 5,638,396 06/1997 Klimek 372 92 AF41 5,675,392 10/1997 Nayebi et al. 348 584 AG41 5,694,096 12/1997 Ushiroku et al. 333 195 AH41 5,757,870 05/1998 Miya et al. 375 367 AI41 5,768,323 06/1998 Kroeger et al. 375 355 **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL **DOCUMENT NUMBER** DATE COUNTRY CLASS SUB-**TRANSLATION** CLASS AJ41 Yes No AK41 Yes No AL41 Yes No **AM41** Yes No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Nr Tomassetti, Q., "An Unusual Microwave Mixer," 16th European Microwave Conference, Microwave Exhibitions AN 41 and Publishers, pp. 754-759 (September 8-12, 1986). Tortoli, P. et al., "Bidirectional Doppler Signal Analysis Based on a Single RF Sampling Channel," IEEE AO <u>41</u> Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, IEEE Ultrasonics, Ferroelectrics, and Frequency Control Society, Vol. 41, No. 1, pp. 1-3 (January 1984).

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		AB44	4,05	51,475	09/1	977	Carr	pbell	34	3	180	
		AC44	5,95	3,642	09/1	999	Feld	Feldtkeller et al.		5	195.1	
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		AE44	5,859,878				Phillips et al.		37	5	316	
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		AG44	5,91	5,278	06/1	999	Mall	ick	73		658	
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raye 40 UL 03 APPLICATION NO. ATTY. DOCKET NO. 1744.0250001 09/476,092 FORM PTO-1449 APPLICANT Sorrells et al. INFORMATION DISCLOSURE STA GROUP FILING DATE 2682 January 3, 2000 **U.S. PATENT DOCUMENTS EXAMINER DOCUMENT CLASS** SUB-FILING DATE INITIAL DATE NAME **CLASS NUMBER** 327 359 04/06/1998 AA45 6,121,819 09/2000 Traylor 113 02/01/1998 **AB45** 6,144,236 11/2000 Vice et al. 327 AC45 6,144,846 11/2000 Durec 455 323 12/31/1997 6,175,728 B1 01/2001 Mitama 455 323 03/03/1998 AD45 329 304 01/1998 Alelyunas et al. AE45 5,705,949 Assard et al. 329 306 AF45 5,883,548 03/1999 AG45 11/1984 French et al. 329 50 4,484,143 Williams 17 11/1998 331 AH45 5,841,324 363 157 Al45 4,855,894 08/1989 Asahi et al. **FOREIGN PATENT DOCUMENTS EXAMINER** INITIAL DOCUMENT NUMBER DATE COUNTRY CLASS SUB-TRANSLATION **CLASS AJ45** Yes No Yes **AK45** No Yes AL45 No AM45 Yes Nο OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Vilar, E. and Moulsley, T.J., "Comment and Reply: Probability Density Function of Amplitude Scintillations," AN <u>45</u> Electronics Letters, IEE, Vol. 21, No. 14, pp. 620-622 (July 4, 1985). Vilar, E. et al., "Comparison of Rainfall Rate Duration Distributions for ILE-IFE and Barcelona," Electronics AO 45 Letters, IEE, Vol. 28, No. 20, pp. 1922-1924 (September 24, 1992). Vilar, E., "Depolarization and Field Transmittances in Indoor Communications," Electronics Letters, IEE, Vol. AP <u>45</u> 27, No. 9, pp. 732-733 (April 25, 1991). Vilar, E. and Larsen, J.R., "Elevation Dependence of Amplitude Scintillations on Low Elevation Earth Space Paths," Sixth International Conference on Antennas and Propagation (ICAP 89) Part 2: Propagation, IEE, pp. AQ <u>45</u> 150-154 (April 4-7, 1989).

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	AQ	<u>56</u>	Ritter, G.M., Exhibitions ar	'SDA, nd Put	A New Solu blishers, pp.	tion fo 729-73	Transceivers," <i>16th Eu</i> 33 (September 8, 1986)	ropean Microwave	Conference,	Microwave	
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

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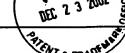
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	AD50	5,93	7,013	08/19	999	Lam	et al.				
	AE50	6,01	4,551	01/20	000	Pesc	ola et al.				07/16/1997
	AF50	6,07	3,001	06/20	000	Soko	oler				05/08/1998
	AG50	6,08	5,073	07/2	000	Pale	rmo <i>et al</i> .				03/02/1998
	AH50	6,40	0,963 B1	06/20	002	Glöc	kler <i>et al</i> .				05/21/1999
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	AB51	6,560,301 B1	05/2	003	Cook	et al.			04/16/1999
	AC51	6,098,046	08/2	000	Coop	er et al.			06/29/1998
	AD51	5,410,326	04/1	995	Gold	stein			
	AE51	5,956,025	09/1	999	Goule	den <i>et al</i> .			
	AF51	6,127,941	10/2	000	Van I	Ryzin			02/03/1998
	AG51	5,564,097	10/1	996	Swar	nke			
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	AE54	6,6	34,555 B1	10/2003	Sorrells et al.		AR 2 9 200	[
	AF54	3,7	36,513	05/1973	Wilson		ology Cente	
	AG54	4,4	88,119	12/1984	Marshall	- IBCIII		
	AH54	4,6	33,510	12/1986	Suzuki et al.			
b	A154	5,3	69,789	11/1994	Kosugi <i>et al.</i>	<u> </u>		
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NM	AN	<u>59</u>	Simoni, A. et al. IEEE Journal of	Solid-State	Circtuits, IEEE, Vol. 30,	No. 7, pp. 800-	806 (July 19	95).
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NM	AA55	5,416,449	05/1995	Joshi			
1	AB55	5,438,329	08/1995	Gastouniotis et al.			
	AC55	6,611,569 B1	08/2003	Schier et al.	BE	CEIVE)
	AD55	6,647,250 B1	11/2003	Bultman et al.		2 9 2004	
	AE55	5,682,099	10/1997	Thompson et al.		gy Center 2	
	AF55	6,094,084	07/2000	Abou-Allam et al.		a) celifit 5	500
	AG55	6,067,329	05/2000	Kato et al.			
	AH55	6,516,185 B1	02/2003	MacNally			
	AI55	6,608,647 B1	08/2003	King	-		
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NM	AA56	6,687,493 B1	02/2004	Sorrells et al.		-	
	AB56	6,694,128 B1	02/2004	Sorrells et al.			
	AC56	6,031,217	02/2000	Aswell et al.			
	AD56	5,955,992	09/1999	Shattil	R	ECEIVE	D
	AE56	5,999,561	12/1999	Naden et al.	M	AR 2 9 20	04
	AF56	6,686,879 B2	02/2004	Shattil	Techn	ology Center	2600
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	AC57	6,600,911 B1	07/2003	Morishige et al.			
	AD57	5,179,731	01/1993	Tränkle et al.			
	AE57	5,589,793	12/1996	Kassapian	_		
	AF57	4,510,467	04/1985	Chang et al.	_		
	AG57	4,772,853	09/1988	Hart			
	AH57	4,972,436	11/1990	Halim et al.			
7	A157	5,012,245	04/1991	Scott et al.	-	_	
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Page 3 of 5 APPLICATION NO. ATTY. DOCKET NO. 09/476,092 1744.0250001 **FORM PTO-1449 INVENTORS** SORRELLS et al. SIXTH SUPPLEMENTAL FILING DATE **ART UNIT** INFORMATION DISCLOSURE STATEMENT January 3, 2000 2686 U.S. PATENT DOCUMENTS **EXAMINER** NAME CLASS SUB-CLASS FILING DATE **DOCUMENT NUMBER** DATE INITIAL **AA58** 5,422,909 06/1995 Love et al. 08/1995 Gallagher et al. 5,440,311 **AB58** 07/1999 Suominen et al. AC58 5,926,513 AD58 5,995,030 11/1999 Cabler 04/2000 Chao et al. AE58 6,047,026 04/2000 6,049,573 Song AF58 06/2000 Hartley et al. **AG58** 6,076,015 11/2000 **Jiang AH58** 6,144,331 01/2000 Sanielevici et al. 6,018,553 **A158** FOREIGN PATENT DOCUMENTS **EXAMINER TRANSLATION** CLASS SUB-CLASS COUNTRY INITIAL **DOCUMENT NUMBER** DATE Yes AJ No Yes ΑK No Yes AL No Yes **AM** No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) AN **RECEIVED** AO MAY 1 8 2004 **Technology Center 2600** AP AQ AR

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NM	AA59	6,317,589 B1	11/2001	Nash			
	AB59	5,058,107	10/1991	Stone et al.			,
	AC59	5,757,858	05/1998	Black et al.	_		
	AD59	6,531,979 B1	03/2003	Hynes			
	AE59	6,018,262	01/2000	Noro et al.	_		
	AF59	4,761,798	08/1988	Griswold, Jr. et al.		RECE	IVED
	AG59	5,982,315	11/1999	Bazarjani et al.		MAY I 8	2004
	AH59	6,459,721 B1	10/2002	Mochizuki et al.	To		enter 2600
1	AI59	6,151,354	11/2000	Abbey	100		
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NM	AA60	6,169,733 B1	01/2001	Lee		_	
	AB60	6,363,262 B1	03/2002	McNicol			
	AC60	6,697,603 B1	02/2004	Lovinggood et al.			
	AD60	5,282,222	01/1994	Fattouche et al.		_	
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VΛ	AA61		31,570	01/1996	Winters				
	AB61	5,74	45,846	04/1998	Myer et al.				
	AC61	5,34	45,239	09/1994	Madni et al.		ECEIVI	D	
•	AD61	4,1	32,952	01/1979	Hongu et al.		OV 2 4 70	Ī	
	AE61	5,2	60,973	11/1993	Watanabe				
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NM	AA62	4,441,080	04/1984	Saari			
	AB62	4,873,492	10/1989	Myer			
	AC62	5,697,074	12/1997	Makikallio et al.			
	AD62	5,784,689	07/1998	Kobayashi	RECE	IVED	
	AE62	6,335,656 B1	01/2002	Goldfarb et al.	NOV 2	2004	
-1	AF62	6,690,232 B2	02/2004	Ueno et al.	Foots class C		
	AG62	5,636,140	06/1997	Lee et al.	Technology C		
	AH62	6,366,622 B1	04/2002	Brown et al.			
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NM	· AA63	4,250,458	02/1981	Richmond et al.	-		
7	AB63	5,760,629	06/1998	Urabe et al.			
	AC63	6,084,465	07/2000	Dasgupta			
.	AD63	6,204,789 B1	03/2001	Nagata	RECEI	VED	
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-	AF63	5,218,562	06/1993	Basehore et al.			
_	AG63	5,239,496	08/1993	Vancraeynest	Technology Co	mer 2000	
-	AH63	5,896,304	04/1999	Tiemann et al.			
6	A163	6,005,903	12/1999	Mendelovicz			
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Page 2 of 3 APPLICATION NO. 09/476,092 ATTY. DOCKET NO. 1744.0250001
FIRST NAMED INVENTOR
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		AC69	5,887,001	03/1999	Russell			
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		AP60	English-language Abstr 1 page (January 21, 19	ract of Japanes 187 - Date of pu	se Patent Publication No. ublication of application).	JP 62-12381, data	a supplied by	the espacenet
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		AE74	5,847,594	12/1998	N	fizuno			_			
		AF74	3,641,442	02/1972	B	oucher		\bot				
		AG74	5,140,699	08/1992	K	ozak	_					
		AH74	7,050,058 B2	05/2006	s	iorrells et al.				,		ļ
1		A174	7,054,296 B1	05/2006		orrells et al.	<u> </u>		<u>\</u>	/	<u>\</u>	<u> </u>
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	AB75	2003/0149579 A1	08/2003		gemann et al.		_	_		,	
·	AC75	5,063,387	11/1991		ower		 				
	AD75	5,535,402	07/1996	Le	ibowitz et al.		 				
	AE75	6,512,785 B1	01/2003	ZF	ou et al.		1				
	AF75	6,567,483 B1	05/2003	De	ent et al.						ļ
	AG75	6,775,684 B1	08/2004	To	oyoyama et al.						
	AH75	4,740,792	04/1988	Sa	agey et al.						
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	1.03	AA76	5,552,789	09/1996		huermann						
	<u> </u>	AB76	5,905,433	05/1999		ortham		┞				
		AC76	6,647,270 B1	11/2003		mmelstein						
		AD76	6,034,566	03/2000	OI	1 8		↓_				
		AE76	6,313,700 B1	11/2001	Ni	shijima et al.		L				
		AF76	6,959,178 B2	10/2005	. Ma	acedo et al.						
		AG76	6,999,747 B2	02/2006	Su							
		AH76	2004/0125879 A1	07/2004	Ja	ussi <i>et el</i> .						
\	/	A176	7,072,390 B1	07/2006	Sc	orrells et al.		Ψ	1	/		/
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NM	AB77	7,076,011 B2	07/2006	Cook et al.				
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	AC77	7,082,171 B1	07/2006	Joi	hnson et al.					<u> </u>	ļ	
	AD77	7,085,335 B2	08/2006	Ra	wlins et al.							
	AE77	3,739,282	06/1973	Bruch et al.						ļ		
	AF77	4,439,787	03/1984	Мо	ogi et al.							
	AG77	4,866,441	09/1989	Co	Conway et al.				1			
	AH77	4,885,671	12/1989	Pe			_			<u> </u>		
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V	A177	5,164,985			T DOCUMENTS		<u> </u>				<u> </u>	
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NM	AN62	English-language Com JPO, 10 pages (June 2 No. 10/305,299, directe	6, 1998 - Date	e of pul	blication of applicati	ublication (on) and c	No. JP 1 ited in U	0-17356 .S. Pate	33, pro ent Ap	vided t plicatio	oy the n Ser.	
NM	AO62	What is VQ Data?, print	ted Septembe	er 16, 2	2006, from <u>http://zon</u>	e.ni.com, t	8 pages	(Соругі	ght 20	03).		
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	MM	AA78	5,734,683	03/1998	н	ulkko e <i>t ei.</i>					
		AB78	5,918,167	06/1999	Ti	ller <i>et al</i> .				<u> </u>	
		AC78	6,445,726 B1	09/2002	G	harpurey					
		AD78	6,560,451 B1	05/2003	S	omayajula					
		AE78	2,530,824	11/1950	к	ing					
		AF78	7,107,028 B2	09/2006	s	оrrells e <i>t al.</i>					
		AG78	7,110,435 B1	09/2006	s	orrells et al.					
		AH78	7,110,444 B1	09/2006	s	orrelis et al.					
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NM	AA79	5,834,987	11/1998	Dent							
	AB79	RE37,138 E	04/2001	Dent							
	AC79	6,441,694 B1	08/2002	Turcotte et al.		<u> </u>					
	AD79	6,892,057 B2	05/2005	Nilsson			·				
	AE79	6,741,650 B1	05/2004	Painchaud et al.							
	AF79	6,441,659 B1	08/2002	Demone .							
V	AG79	2002/0132642 A1 .	09/2002	Hines et al.	V	V	V				
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